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of \$1500 (fifteen hundred dollars) was made for continuing the printing of the Catalogue of the Library.

Gen. Kane read the following joint resolution offered to Congress.

Resolved, That the President be authorized to confer with the authorities of Mexico for the establishment of a joint commission having for its object the scientific exploration of the border States of Mexico and the United States ; the operations of the commission to be conducted under the advice of the National Academy of Sciences. *Provided however*, that nothing herein contained shall be construed as to involve the United States for the payment of any claim which may grow out of such action or proceeding. Act, July 12, 1870.

On motion of Gen. Kane, it was resolved that this Society approves of the passage by Congress of the above Resolution ; heartily commending the scientific exploration proposed, and the form of organization suggested.

And the meeting was adjourned.

Stated Meeting, March 2nd, 1877.

Present, 15 members.

Vice-President, Mr. PRICE, in the Chair.

Dr. Bache, a newly elected member, was presented to the presiding officer, and took his seat.

Letters accepting membership were received from Prof. C. F. Brackett, dated Princeton, Feb. 17, 1877 ; and Prof. Henry Turner Eddy, C. E., dated University of Cincinnati, Feb. 26, 1877.

A photograph for the album was received from Dr. Geo. W. Anderson, of the American Baptist Publication Society, 1420 Chestnut Street, Philadelphia.

A letter requesting a set of Proceedings for working pur-

poses was received from Prof. J. J. Stevenson, dated 314 West 30th Street, N. Y., Feb. 15, 1877; and on motion the request was granted.

A letter requesting No. 73, 75 and 80 of the Proceedings of the Society, and the loan of any cuts relating to the subject of Indian sculptures in the possession of the Society, to be used by him in his work on Indian Antiquities, was received from Mr. E. A. Barber, West Chester, Pa., with references to Prof. T. C. Porter, of Easton. On motion the Librarian was directed to correspond with Prof. Porter, and authorized to grant Mr. Barber's request.

Letters of acknowledgment were received from the Radcliffe Observatory, Feb. 12, 1877; and the Franklin Institute.

A letter of envoy was received from C. P. Ob., St. Petersburg.

Donations for the Library were received from J. J. A. Worsaae, of Copenhagen; *Annales des Mines*; *Revue Politique*; Geographical Society and Bureau des Longitudes, Paris; Royal Astronomical Society; Victoria Institute and London Nature; Nova Scotia Institute at Halifax; the Editor of the Naturalist's Directory, Salem; the A. Antiq. Society, Worcester; American Chemist; Index; Mr. Potts of Camden, N. J.; Mr. Fred. Graff, Mr. Hermann Haupt, and the Mercantile Library Co., of Philadelphia; Commissioners of Second Geological Survey of Pennsylvania; U. S. Corps of Engineers, and Public Library of Indianapolis.

The death of Rear Admiral Davis at Washington, Feb. 25, 1877, aged years, was announced by the Secretary.

Professor Sadtler communicated the results of his recent gas analyses; and Mr. Lesley described the importance of the investigation in a geological sense, as the first ever published which took into account the elements of depth hypsometrical, depth geological, order and age of the oil horizons, and geographical distribution of the groups of wells in a north and south direction from Pittsburgh to Buffalo.

Professor Cope exhibited a vertebral column, thirty-three feet long, of an unusually perfect *Elasmosaurus*, to which he

gave the specific name of *Serpentinus*, and described the points in which it differed from *E. platyurus* (Cope), a description of which had been given at a meeting of the Society nine years ago, and was published in its Transactions.

Professor Cope also communicated evidence of the existence of a new species of Mastodon in the United States, and proposed for it the specific name *M. tremontinus*.

Mr. Chase called attention to some experimental results, illustrating his 6th, 7th and 10th fundamental propositions of central force.

Professor Blazius read a paper entitled "The progress in Meteorology, and its tendency during the last twenty-five years; with some supplementary notes to a recent English work bearing that title.

Pending nominations 830, 831, 832, 833 and 834 were read.

And the meeting was adjourned.

Stated Meeting, March 16th, 1877.

Present, 12 members.

Vice-President, Mr. PRICE, in the Chair.

Mr. McKean a newly elected member was introduced to the presiding officer and took his seat.

Letters accepting membership were received from Prof. J. M. Hart, dated 228 S. Broad Street, Philadelphia, March 2d, 1877; and from Prof. F. Reuleaux, dated Berlin, Feb. 20, 1877.

Letters of acknowledgment were received from E. A. Barber, dated West Chester, Pa., March 12, 1877, (73, 75, 80); the Lenox Library, dated New York, March 14, 1877, (96, 98); and Prof. J. J. Stevenson, dated 314 W. Thirtieth Street, New York, March 7, 1877 (65 to 98).

A letter of enquiry was received from Prof. Daniel Kirk-